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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/639,465	08/13/2003	Kazuo Yamazaki	501.39812VV2	6745	
20457 ANITONIELLI	7590 04/16/2007 TEDDY STOLE & KD	EXAMINER			
	TERRY, STOUT & KR SEVENTEENTH STRE	GOUDREAU	GOUDREAU, GEORGE A		
SUITE 1800	VA 22209-3873		ART UNIT	PAPER NUMBER	
ARLINGTON,	V A 22203-3013		1763		
	AN DEDVOY OF DESPONSE	MAIL DATE	DELIVER	Y MODE	
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DEGIVER	DELIVERT MODE	
3 MONTHS		04/16/2007	PAF	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Applicat	tion No.	Applicant(s)					
Office Action Summary		10/639,	465	YAMAZAKI ET AL.					
		Examine	er	Art Unit	•				
		George A	A. Goudreau	1763					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)🖂	1) Responsive to communication(s) filed on 22 January 2007.								
	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.								
-	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.									
Disposition of Claims									
4) Claim(s) 1,5-17 and 21-37 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) Claim(s) is/are allowed.  6) Claim(s) 1,5-17 and 21-37 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or election requirement.									
Application Papers									
9) The specification is objected to by the Examiner.									
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority under 35 U.S.C. § 119									
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.									
			Ye	GEORGE GOUDI PRIMARY EXAM	REAU IINER				
Attachment(s) 3-07									
2) Notice 3) Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-9ation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	948)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite					

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1. This action will not be made final due to the new grounds of rejection.

- 2. Applicant's arguments with respect to claims of record have been considered but are most in view of the new ground(s) of rejection.
- 3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 4. Claims 1, 5-17, and 21-37 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter, which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.
  - -The specification recites that the first gas, which is used in the etchant, is one, which is hardly reactive with Ge. The only examples of gasses, which may be used as the first gas in the specification, are inert gasses such as Ar, and N2. The claims recite that the first gas which is one, which is less reactive with Ge as compared with O2. Since O2 is very reactive with Ge, the scope of gasses, which may be used as the first gas in the etchant, is much larger in the presently claimed invention than what is disclosed in the specification of the present application. The specification gives no guidance of what gasses may be used as the first gas other than to say it is a gas, which is hardly reactive with Ge such as N2 or Ar.

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5. Claims 1, 5-17, and 21-37 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the usage of inert gases as the first etch gas, does not reasonably provide enablement for the usage of any gas which is less reactive than O2 with Ge as the first etch gas. The specification does not enable one person skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with these claims.

Thus, the scope of what is enabled by the specification is much narrower than what is claimed in the claims. There are millions of compounds, which are less reactive than O2 with Ge, and would therefore read on applicant claimed invention. The specification gives no guidance of what gasses may be used as the first gas other than to say it is a gas, which is hardly reactive with Ge such as N2 or Ar. Nor is it within the scope of what one skilled in the etching arts to select gases other than inert gases for the first gas of the etchant. This is based upon the fact that these other gases are not chemically related to each other in ways known to one skilled in the chemical arts.

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

  The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 7. Claims 1, 5-17, 21-26, and 30-37 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

-In the claims, applicant uses the term (a), and (b) in two different manners which is confusing. Applicant first uses these terms to denote different process steps.

Applicant then uses these terms to denote different components of an etching

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gas. Applicant cannot use these terms to denote two different things in the claims.

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- 8. This application should have been filed as a CIP rather than a divisional since it claims subject matter, which is not supported by the specifications, which were filed in either of the parent applications. The parent applications recite the usage of a more narrow scope of what the first gasses in the etchant may be. That is to say the claims in the pending application are broader in scope than what the parent application enables in terms of what gasses may be used as the first gas in the etchant.
- 9. Any inquiry concerning this communication should be directed to examiner George A. Goudreau at telephone number (571)-272-1434.

Joudrean

George A. Goudreau

Primary Examiner

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